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CELERY CULTIVAR TRIALS - 1982

MUCK CROPS BRANCH
Celeryville, Ohio

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Muck Crops Branch, Celeryville, Ohio
James M. Pisarczyk[1] and Richard L. Hassell[2]

Sixteen cultivars or promising breeding lines of celery were compared in replicated trials at the Muck Crops Branch in the 1982 season. Cultural information and tabular data summary are included in the following:

Cultural Information

Seed was sown in flats in the greenhouse in early April, seedlings were transplanted into 080A Speedling flats, and the celery was transplanted into the field on June 11, 1982.

Eight hundred pounds of a 6-24-12 fertilizer were applied and disced in prior to planting. Side-dressing of ammonium nitrate (100 lb/A) was made twice during the second and fourth week of planting.

Randomized replicated plots consisted of paired rows spaced 34 inches, with 40 inches between the paired rows for equipment clearance. Plants were spaced 6.5 inches in the row, with 110 plants per 30 foot double-row plot and replicated five times for each cultivar.

Standard insecticide and fungicide sprays were applied regularly throughout the season.

Celery was harvested on September 10, 1982. Data on total yield, stalk size, trim loss, length and number of petioles are listed in Table 1.

Seed Sources

We would like to acknowledged that each seed company donated the seed for these celery cultivar studies.

Harris Seed Co. - Clean Cut, Tall Green Light
(AGRI) Keystone Seed Co. - Grande, Earlibelle, June Bell
Ferry-Morse Seed Co. - Tall Utah 52-70 R Improved, Tall Utah 52-75, Tendercrisp ,Florida 683, Surepak, Summit, FM 1213, 15C-41
Abbott & Cobb, Inc. - ACX 80281, Strain 2.13
Asgrow Seed Co. - Florigreen

Results

Florida 683, FM 1213, Tall Utah 52-70 R Improved, and Tall Green Light were the four highest yielding cultivars. Other cultivars also had excellent yields. The cultivar with the longest petiole first node length were FM 1213, Tall Green Light, Florigreen, and Clean Cut.

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TABLE 1 - CELERY CULTIVARS - 1982

Rank & Variety	Average Yield/Plot-Marketable trimmed weight lb.	untrimmed weight lb.	trim loss %	Avg. stalk lb.	Petiole count 4" above butt no.	Petiole length butt no. 1st node in.	Petiole overall length in.
1. Florida 683	204	296	31	2.1	8.5	8.8	22.5
2. FM 1213	202	318	36	2.1	7.9	10.6	24.
3. Tall Utah 52-70 RImp.	190	321	41	2.2	8.1	9.5	24
4. Tall Green Light	187	323	42	1.9	9.6	10.4	23
5. Junebell	185	289	36	2.0	8.6	8.9	21
6. Clean Cut	184	303	39	2.1	8.5	10.2	22
7. Tendercrisp	184	289	36	2.2	8.9	9.9	21
8. Earlibell	178	316	44	1.9	8.3	8.8	22
9. Strain 2.13	174	307	43	2.1	9.1	9.7	22
10. Grande	162	280	42	1.8	6.4	8.8	23
11. 15C-41	153	257	40	1.4	9.0	7.3	21.5
12. Summit	149	260	43	2.1	8.0	9.0	22
13. ACX 80281	149	282	47	1.7	10.7	8.6	22
14. Surepak	146	294	50	1.7	8.6	9.7	21
15. Tall Utah 52-75	140	245	43	1.6	7.7	8.6	19
16. Florigreen	140	273	49	1.7	7.4	10.3	21.5
LSD 5%	27.0	30.9	NS	.45	NS	1.6	1.4

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